## BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

**Name of work:** Detailed Estimate for the Work of Improvements to Road and Drains at Srirama Temple Road Dwarakanagara in ward No 05 Byatarayanapura Sub Division

| | | | | | | | Estimate Cost Rs. | | 2000000.00 |
|---|---|---|---|---|---|---|---|---|---|
| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300- Sacarifying the surface and dressing KSRRB 300-44: Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of ld serviceable materials within a lead of 100 meters by manual means including cost of all labour charges complete as per specifications.MORTH chapter 3, No. 155/ Item No. 19.50/ PWD SR 2010-11 | Sqm | | | | | | | |
| | 1st Cross | | 1 | 64.00 | 4.20 | | 268.80 | | |
| | 2nd Cross | | 1 | 175.00 | 4.20 | | 735.00 | | |
| | | | | | | | 1000.00 | 17.93 | 17928.00 |
| | Basic Rate | 16.60 | | | | | | | |
| | Area Weightage @ 8% | 1.33 | | | | | | | |
| | Total | 17.93 | | | | | | | |
| 2 | KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2013-14 | cum | | | | | | | |
| | Desilting of Drains | | 2 | 260.00 | 0.45 | 0.30 | 70.20 | | |
| | Burm Cutting | | 2 | 260.00 | 0.95 | 0.30 | 148.20 | | |
| | | | | | | | 218.40 | 126.36 | 27597.00 |
| | Basic Rate | 117.00 | | | | | | | |
| | Area Weightage @ 8% | 9.36 | | | | | | | |
| | Total | 126.36 | | | | | | | |
| 3 | KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14 | Cum | | | | | | | |
| | For Culverts | | 3 | 8.00 | 1.80 | 1.05 | 45.36 | | |
| | Slab Drain | | 1X2 | 100.00 | 0.75 | 0.75 | 112.50 | | |
| | | | | | | | 157.86 | 227.88 | 35973.00 |
| | Basic Rate | 211.00 | | | | | | | |
| | Area Weightage @ 8% | 16.88 | | | | | | | |
| | Total | 227.88 | | | | | | | |
| 4 | Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 20113-14 | Sqm | | | | | | | |
| | | | 1 | 260.00 | 1.65 | | 429.00 | | |
| | | | | | | | 429.00 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **Deduct 30% Missing Slabs** | | | | | | 128.70 | | |
| | | | | | | | **300.30** | 50.11 | **15049.00** |
| | Basic Rate | 46.40 | | | | | | | |
| | Area Weightage @ 8% | 3.71 | | | | | | | |
| | Total | **50.11** | | | | | | | |
| 4 | Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2013-14 | Sqm | | | | | | | |
| | | | Qty Vide Item No.3 | | | | 300.30 | | |
| | | | | | | | **300.30** | **70.04** | **21032.00** |
| | Basic Rate | 64.85 | | | | | | | |
| | Area Weightage @ 8% | 5.19 | | | | | | | |
| | Total | **70.04** | | | | | | | |
| 5 | Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2012-13 | **Sqm** | | | | | | | |
| | **For Missing slabs (30%)** | | Missing Slabs | | | | 128.70 | | |
| | **New Salb Drain** | | 1X2 | 100 | 1.75 | | 350.00 | | |
| | | | | | | | **478.70** | 343.44 | **164405.00** |
| | Basic Rate | 318.00 | | | | | | | |
| | Area Weightage @ 8% | 25.44 | | | | | | | |
| | **Total** | **343.44** | | | | | | | |
| 6 | KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2013-14 | **Cum** | | | | | | | |
| | For Culverts | | 3 | 8.00 | 1.95 | 0.15 | 7.02 | | |
| | | | | | | | **7.02** | 4290.84 | **30122.00** |
| | Basic Rate | 3973.00 | | | | | | | |
| | Area Weightage @ 8% | 317.84 | | | | | | | |
| | Total | **4290.84** | | | | | | | |
| 7 | KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14 | cum | | | | | | | |
| | For Culverts | | 3X2 | 8.00 | 0.60 | 0.45 | 12.96 | | |
| | | | | | | | **12.96** | 3549.96 | **46007.00** |
| | Basic Rate | 3287.00 | | | | | | | |
| | Area Weightage @ 8% | 262.96 | | | | | | | |
| | **Total** | **3549.96** | | | | | | | |
| 8 | KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14 | **Sqm** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | For Culverts | | 3X2 | 8.00 | 0.50 | 0.45 | 10.80 | | |
| | | | | | | | **10.80** | **4227.12** | **45653.00** |
| | Basic Rate | 3914.00 | | | | | | | |
| | Area Weightage @ 8% | 313.12 | | | | | | | |
| | **Total** | **4227.12** | | | | | | | |
| 9 | KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2013-14 | **Sqm** | | | | | | | |
| | For Culverts | | 3 | 8.00 | 0.60 | | 14.40 | | |
| | For Sides | | 3X2 | 8.00 | 0.23 | | 11.04 | | |
| | | | 3X2 | 1.65 | 0.23 | | 2.28 | | |
| | | | | | | | **27.72** | **244.08** | **6765.00** |
| | **Basic Rate** | **226.00** | | | | | | | |
| | Area Weightage @ 8% | 18.08 | | | | | | | |
| | **Total** | **244.08** | | | | | | | |
| 10 | KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14 | **cum** | | | | | | | |
| | For Culverts | | 3X2 | 8.00 | 0.50 | 0.10 | 2.40 | | |
| | Vent Bed | | 3 | 8.00 | 0.60 | 0.10 | 1.44 | | |
| | | | | | | | **3.84** | 4737.96 | **18194.00** |
| | Basic Rate | 4387.00 | | | | | | | |
| | Area Weightage @ 8% | 350.96 | | | | | | | |
| | Total | **4737.96** | | | | | | | |
| 11 | KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14** | **Cum** | | | | | | | |
| | For Culverts | | 3 | 8.00 | 1.65 | 0.23 | 9.11 | | |
| | | | | | | | **9.11** | 5639.76 | **51367.00** |
| | Basic Rate | 5222.00 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Area Weightage @ 8% | 417.76 | | | | | | | |
| | Total | 5639.76 | | | | | | | |
| 13 | KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.1/ PWD SR 2013-14 | Qtl | | | | | | | |
| | 0.70 Qtl/Cum | | 0.70 | 9.11 | | | 6.38 | 7380.72 | 47057.00 |
| | Basic Rate | 6834.00 | | | | | | | |
| | Area Weightage @ 8% | 546.72 | | | | | | | |
| | Total | 7380.72 | | | | | | | |
| 14 | KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14 | Sqm | | | | | | | |
| | For Culverts | | 3X2 | 8.00 | | 0.50 | 24.00 | | |
| | | | | | | | 24.00 | 79.92 | 1918.00 |
| | Basic Rate | 74.00 | | | | | | | |
| | Area Weightage @ 8% | 5.92 | | | | | | | |
| | Total | 79.92 | | | | | | | |
| 15 | KSRRB M300-53: construction of **embankment** with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 159/ Item No. 19.60/ PWD SR 2013-14 | Cum | | | | | | | |
| | 1st Cross | | 1 | 64.00 | 4.20 | 0.30 | 80.64 | | |
| | 2nd Cross | | 1 | 175.00 | 4.20 | 0.30 | 220.50 | | |
| | | | | | | | 300.00 | 166.32 | 49896.00 |
| | Basic Rate | 154.00 | | | | | | | |
| | Area Weightage @ 8% | 12.32 | | | | | | | |
| | Total | 166.32 | | | | | | | |
| 16 | KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 170/ Item No. 20.18/ PWD SR 2013-14 | Cum | | | | | | | |
| | 1st Cross | | 1 | 64.00 | 4.20 | 0.15 | 40.32 | | |
| | 2nd Cross | | 1 | 175.00 | 4.20 | 0.15 | 110.25 | | |
| | | | | | | | 150.00 | 1121.04 | 168156.00 |
| | Basic Rate | 1038.00 | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Area Weightage @ 8% | 83.04 | | | | | | | |
| | Total | 1121.04 | | | | | | | |
| 17 | KSRRB 500-4: providing and applying primer coat from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo-Medium Porosity MORTH chapter 5, No. 175/ Item No. 21.4/ PWD SR 2013-14 | Sqm | | | | | | | |
| | 1st Cross | | 1 | 64.00 | 4.20 | | 268.80 | | |
| | 2nd Cross | | 1 | 175.00 | 4.20 | | 735.00 | | |
| | | | | | | | 1000.00 | 100.60 | 100602.00 |
| | Basic Rate | 93.15 | | | | | | | |
| | Area Weightage @ 8% | 7.45 | | | | | | | |
| | Total | 100.60 | | | | | | | |
| 18 | KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. | Cum | | | | | | | |
| | 1st Cross | | 1 | 64.00 | 4.20 | 0.025 | 6.72 | | |
| | 2nd Cross | | 1 | 175.00 | 4.20 | 0.025 | 18.38 | | |
| | | | | | | | 25.00 | 9631.44 | 240786.00 |
| | Basic Rate | 8918.00 | | | | | | | |
| | Area Weightage @ 8% | 713.44 | | | | | | | |
| | Total | 9631.44 | | | | | | | |
| 19 | Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all | Sqm | | | | | | | |
| | | | 2 | 261.00 | 0.90 | | 469.80 | | |
| | | | | | | | 469.80 | 1427.15 | 670475.00 |
| | Data Rate | 1427.15 | | | | | | | |
| 20 | Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km ( | Cum | | | | | | | |
| | | | Qty. Vide Item No. 1+2 | | | | 376.26 | | |
| | | | | | | | 376.26 | 67.32 | 25330.00 |
| | Basic Rate Lead Charges Upto 2.00 Kms | 5.12 | | | | | | | |
| | PWD SR 2010-11 (P.118/I.17.1) For loading | 62.20 | | | | | | | |
| | Total | 67.32 | | | | | | | |
| | | | | | | | | | 1784312.00 |
| 21 | For 1% Third Party Charges | | | | | | | | 17843.00 |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 19 | KRIDL Charges and Labour Cess 11% | | | | | | | | 196274.00 |
| 19 | Miscesallaneous Charges | L/S | | | | | | | 1571.00 |
| | | | | | | | | Total | 2000000.00 |

**(Rupees Twenty Lakhs Only)**

**CERTIFICATE**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2013-14
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
KRIDL

Techinical Manager
KRIDL

Assistant Engineer
Ward No. 05(Jakkur)

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 20.00 Lakh
Twenty Lakh only

P-102

Registered at Sl. No. 365 Dated 03/03/14

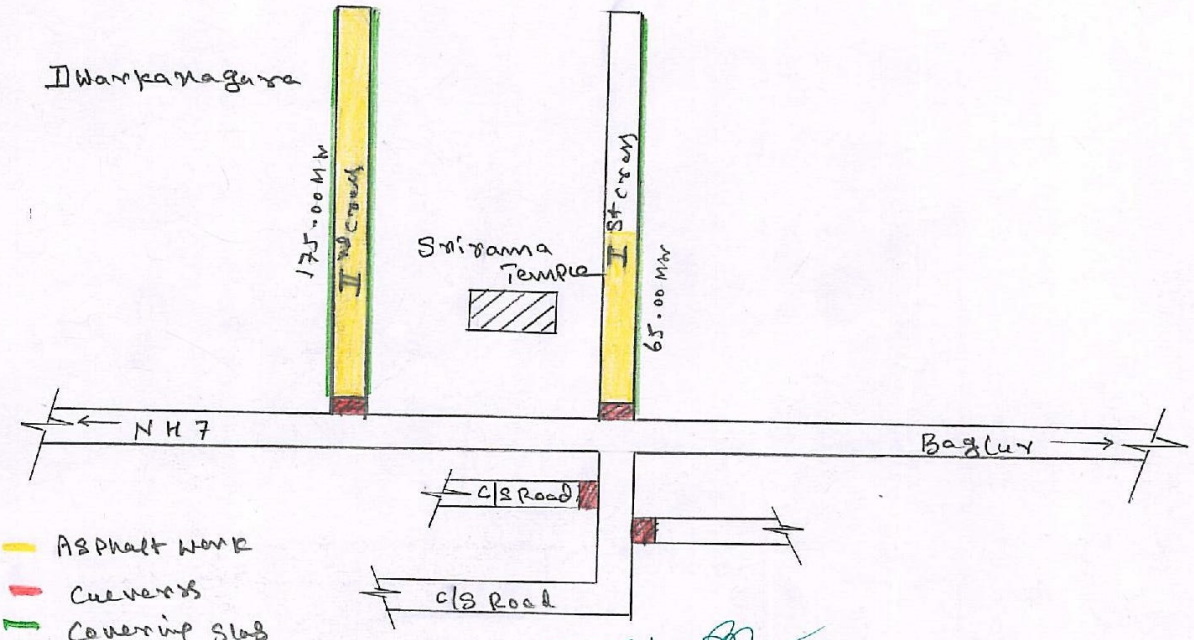
to conditions contained endorsed thereon.

No: EE/365/14-15 Dt. 03/03/14

AE/JE

EE (B.T.P. Div.)

Improvements to Road and Draing At Sriram Temple Road Dwarkanagara in Ward no. 05

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore